

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES CONSTRUCTING AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 2 AND MD 778/GROVERS TURN ROAD IN CALVERT COUNTY. TWIN MAST ARM STRUCTURES ARE PROPOSED IN BOTH ISLANDS. STREET LIGHTS ARE PROPOSED ON BOTH MAST ARM STRUCTURES. MD 2 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL BE EQUIPPED WITH A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER HOUSED IN A SIZE 6 BASE MOUNTED CABINET. IT WILL OPERATE IN FLASHING MODE WITH FLASHING YELLOW ON MD 2 AND FLASHING RED ON MD 778/GROVERS TURN ROAD.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran  
Assistant District Engineer - Traffic  
Phone: 410-841-1003

Mr. John Mays  
Assistant District Engineer - Utility  
Phone: 410-841-1005

Mr. Charles George  
Assistant District Engineer - Maintenance  
Phone: 410-841-1002

Mr. Richard L. Daff  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Edward Rodenhizer  
Chief, Signal Operations Division  
Phone: 410-787-7652

The Power Company Representative is:  
Southern Maryland Electrical Cooperative  
P.O. Box 37  
Prince Frederick, Maryland 20678-9501  
Phone: 410-535-4400

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9044	1 EA	UPDATEDJ CONTROLLER CABINET, SIZE 6
9571	70 SF	UPDATEDJ SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 4 EACH - D-3(I) (96 IN. X 16 IN.) DUAL FACED 2 EACH - SHIELD ASSEMBLY (36 IN. X 75 IN.) 2 EACH - SHIELD ASSEMBLY (24 IN. X 51 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
6002	40 SF	4 INCH CONCRETE SIDEWALK
8001	8 EA	12 INCH LED SIGNAL HEAD SECTION
8007	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8023	1 EA	TWIN MAST ARM POLE & 50 FT/50 FT MAST ARMS ANY 'T' DIMENSION
8025	1 EA	TWIN MAST ARM POLE & 50 FT/60 FT MAST ARMS ANY 'T' DIMENSION
8035	250 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8036	85 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8039	70 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8041	315 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8043	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8045	170 LF	ELECTRICAL CABLE 1 - CONDUCTOR NO. 4 AWG - THHN/THWN
8047	5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8056	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
8057	850 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
8058	385 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG), TC
8065	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

TOD No.: AT915-02  
SHA No.:CA342A51/B51

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 2 AT MD 778/GROVERS TURN ROAD

GENERAL INFORMATION

SCALE NONE DATE 06/2006 CONTRACT NO. AT9155185

DESIGNED BY SDY COUNTY CALVERT  
DRAWN BY AMT LOGMILE 04000231.39  
CHECKED BY BAB T.I.M.S. NO. H773  
F.A.P. NO. TOD NO.

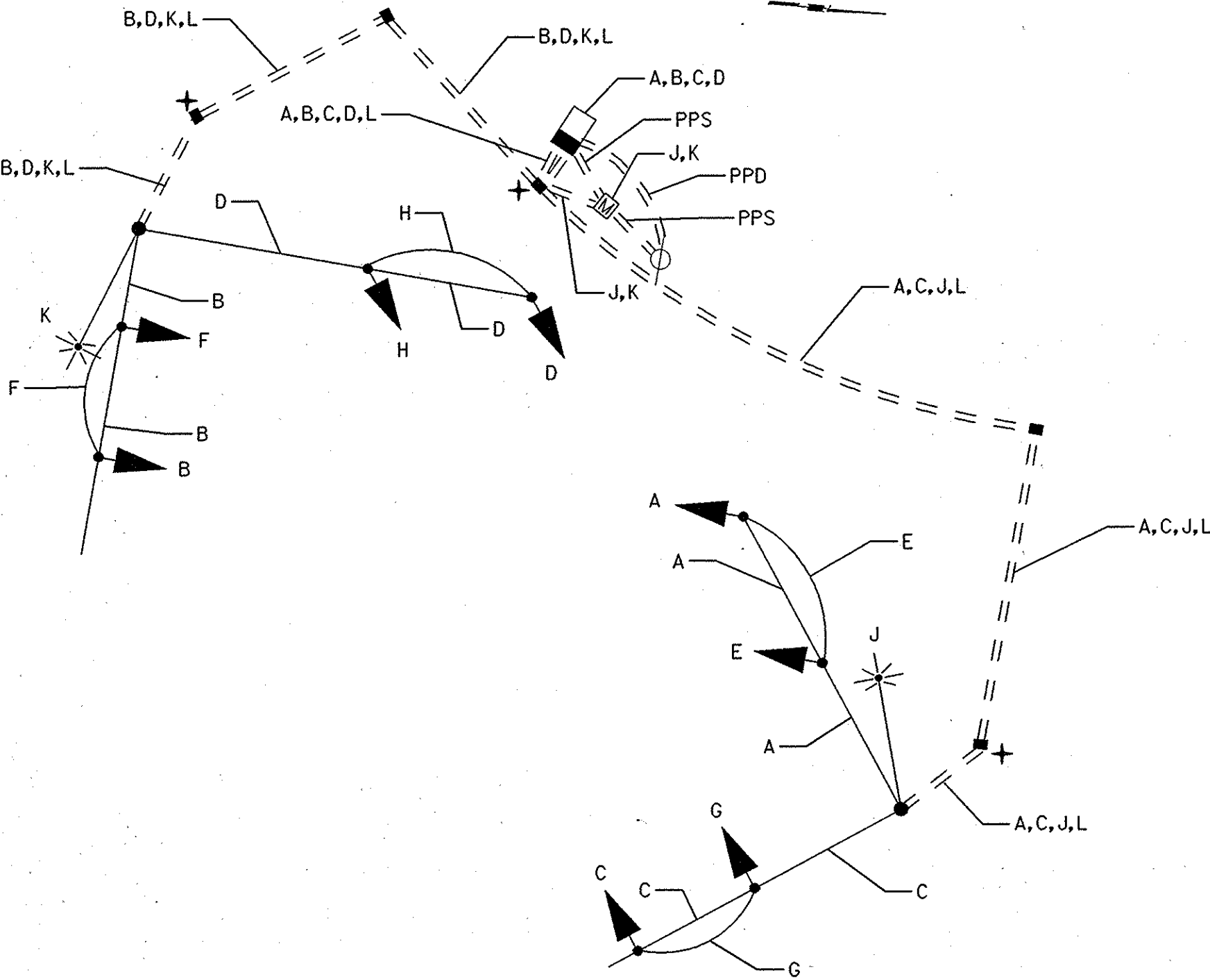
DRAWING NO. TS - 44906-10F

SHEET NO. 2 OF 2

PHASE CHART

	1	2	3	4	5	6	7	8	
	(Y)	(Y)	(Y)	(Y)	(R)	(R)	(R)	(R)	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM



- A, B, C, D, E, F, G, H, J, K, L - ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
- F, G, H - ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- J, K - ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG), TC
- L - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- + - GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

PROPOSED POWER SERVICE  
(ELECTRICAL CABLE 1 - CONDUCTOR NO. 4 AWG - THHN/THWN  
3 RUNS WITH 3-30' COILS OF SLACK CABLE AT UTILITY POLE,  
FINAL SERVICE CONNECTIONS SHALL BE MADE BY SMECO)

PPD - PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS

M - PROPOSED METERED SERVICE PEDESTAL

STV Incorporated

engineers / architects / planners / construction managers  
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112